

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1612bxx

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	OCT 02	CA/CAPplus enhanced with pre-1907 records from Chemisches Zentralblatt
NEWS	3	OCT 19	BEILSTEIN updated with new compounds
NEWS	4	NOV 15	Derwent Indian patent publication number format enhanced
NEWS	5	NOV 19	WPIX enhanced with XML display format
NEWS	6	NOV 30	ICSD reloaded with enhancements
NEWS	7	DEC 04	LINPADOCDB now available on STN
NEWS	8	DEC 14	BEILSTEIN pricing structure to change
NEWS	9	DEC 17	USPATOLD added to additional database clusters
NEWS	10	DEC 17	IMSDRUGCONF removed from database clusters and STN
NEWS	11	DEC 17	DGENE now includes more than 10 million sequences
NEWS	12	DEC 17	TOXCENTER enhanced with 2008 MeSH vocabulary in MEDLINE segment
NEWS	13	DEC 17	MEDLINE and LMEDLINE updated with 2008 MeSH vocabulary
NEWS	14	DEC 17	CA/CAPplus enhanced with new custom IPC display formats
NEWS	15	DEC 17	STN Viewer enhanced with full-text patent content from USPATOLD
NEWS	16	JAN 02	STN pricing information for 2008 now available
NEWS	17	JAN 16	CAS patent coverage enhanced to include exemplified prophetic substances
NEWS	18	JAN 28	USPATFULL, USPAT2, and USPATOLD enhanced with new custom IPC display formats
NEWS	19	JAN 28	MARPAT searching enhanced
NEWS	20	JAN 28	USGENE now provides USPTO sequence data within 3 days of publication
NEWS	21	JAN 28	TOXCENTER enhanced with reloaded MEDLINE segment
NEWS	22	JAN 28	MEDLINE and LMEDLINE reloaded with enhancements
NEWS	23	FEB 08	STN Express, Version 8.3, now available
NEWS	24	FEB 20	PCI now available as a replacement to DPCI
NEWS	25	FEB 25	IFIREF reloaded with enhancements
NEWS	26	FEB 25	IMSPRODUCT reloaded with enhancements
NEWS	27	FEB 29	WPINDEX/WPIDS/WPIX enhanced with ECLA and current U.S. National Patent Classification

NEWS EXPRESS FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2008

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8

Updated Search

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 15:49:32 ON 06 MAR 2008

=> file casreact

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'CASREACT' ENTERED AT 15:49:39 ON 06 MAR 2008

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FILE CONTENT:1840 - 2 Mar 2008 VOL 148 ISS 10

New CAS Information Use Policies, enter HELP USAGETERMS for details.

*
* CASREACT now has more than 13.8 million reactions *
*

Some CASREACT records are derived from the ZIC/VINITI database (1974-1999) provided by InfoChem, INPI data prior to 1986, and Biotransformations database compiled under the direction of Professor Dr. Klaus Kieslich.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=>

Uploading C:\Documents and Settings\brobinson1\My Documents\stnweb\Queries\gnht.str

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

Updated Search

=> s l1
SAMPLE SEARCH INITIATED 15:53:04 FILE 'CASREACT'
SCREENING COMPLETE - 318 REACTIONS TO VERIFY FROM 42 DOCUMENTS

100.0% DONE 318 VERIFIED 0 HIT RXNS 0 DOCS
SEARCH TIME: 00.00.02

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED VERIFICATIONS: 5291 TO 7429
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1 (0 REACTIONS)

=> s l1 full
THE ESTIMATED SEARCH COST FOR FILE 'CASREACT' IS 117.50 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 15:53:11 FILE 'CASREACT'
SCREENING COMPLETE - 6350 REACTIONS TO VERIFY FROM 787 DOCUMENTS

100.0% DONE 6350 VERIFIED 0 HIT RXNS 0 DOCS
SEARCH TIME: 00.00.05

L3 0 SEA SSS FUL L1 (0 REACTIONS)

=>
Uploading C:\Documents and Settings\brobinson1\My Documents\stnweb\Queries\adfr.str

L4 STRUCTURE UPLOADED

=> d l4
L4 HAS NO ANSWERS
L4 STR
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

=> s l4
SAMPLE SEARCH INITIATED 15:54:40 FILE 'CASREACT'
SCREENING COMPLETE - 318 REACTIONS TO VERIFY FROM 42 DOCUMENTS

100.0% DONE 318 VERIFIED 0 HIT RXNS 0 DOCS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED VERIFICATIONS: 5291 TO 7429
PROJECTED ANSWERS: 0 TO 0

L5 0 SEA SSS SAM L4 (0 REACTIONS)

=> s l4 full
THE ESTIMATED SEARCH COST FOR FILE 'CASREACT' IS 117.50 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 15:54:44 FILE 'CASREACT'
SCREENING COMPLETE - 6350 REACTIONS TO VERIFY FROM 787 DOCUMENTS

Updated Search

100.0% DONE 6350 VERIFIED 4 HIT RXNS 3 DOCS
SEARCH TIME: 00.00.01

L6 3 SEA SSS FUL L4 (4 REACTIONS)

=> s l6 and levy, m?/au

22 LEVY, M?/AU

L7 0 L6 AND LEVY, M?/AU

=> d l6, ibib abs crd, 1-3

L6 ANSWER 1 OF 3 CASREACT COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 104:129685 CASREACT

TITLE: Inverse electron demand Diels-Alder reactions of
heterocyclic azadienes. Studies on the total
synthesis of lavendamycin: investigative studies on
the preparation of the CDE β -carboline ring
system and AB quinoline-5,8-quinone ring system

AUTHOR(S): Boger, Dale L.; Duff, Steven R.; Panek, James S.;
Yasuda, Masami

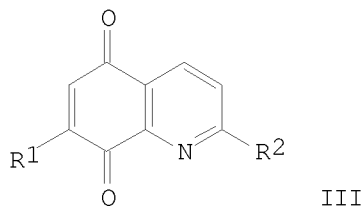
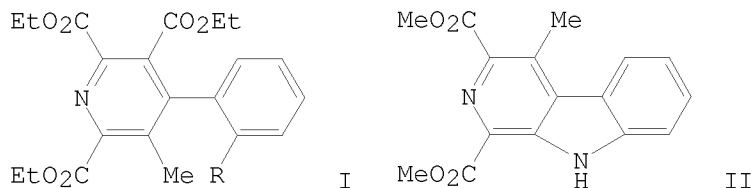
CORPORATE SOURCE: Dep. Med. Chem., Univ. Kansas, Lawrence, KS,
66045-2500, USA

SOURCE: Journal of Organic Chemistry (1985), 50(26), 5782-9
CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE: Journal

LANGUAGE: English

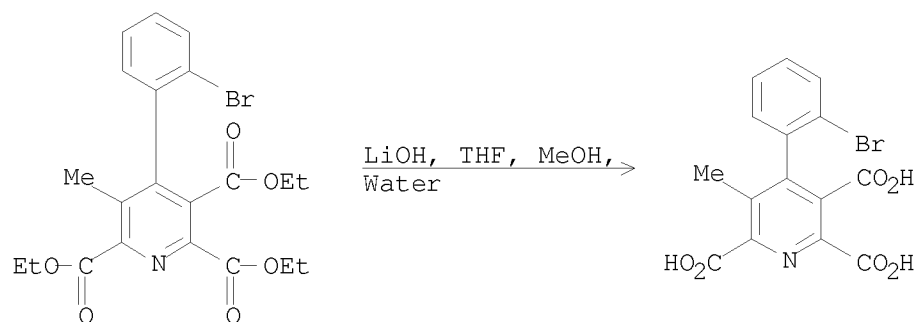
GI



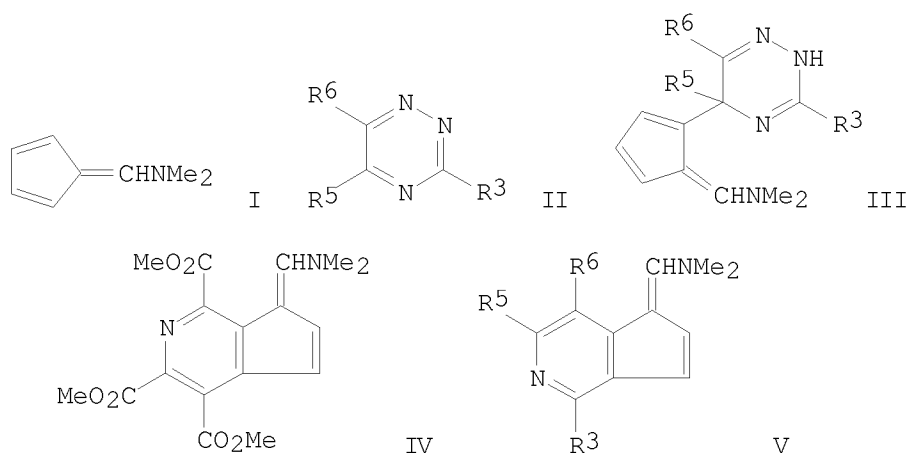
AB Enamines of 2-RC₆H₄COEt (R = Br, F) underwent [4 + 2] cycloaddn. with tri-Et 1,2,4-triazine-3,5,6-tricarboxylate to give the pyridines I. I (R = Br) was converted to the indolopyridine II via transesterification, Schmidt reaction, and (Ph₃P)4Pd-mediated ring closure. The aminoquinolinedione III (R₁ = NH₂, R₂ = H) was prepared via oxidn of 7-bromo-5-nitro-8-quinolinol to III (R₁ = Br, R₂ = H), reaction with NaN₃, treatment of III (R₁ = N₃, R₂ = H) with PPh₃, and hydrolysis of the imine. III (R₁ = NH₂, R₂ = 2-pyridyl) was similarly prepared

Updated Search

RX(5) OF 261



L6 ANSWER 2 OF 3 CASREACT COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 103:123452 CASREACT
 TITLE: Chemistry of 1,2,4-triazines, XII. Cycloaddition reactions of azabenzenes, XVII. Reactions of 1,2,4-triazines with 6-(dimethylamino)pentafulvene
 AUTHOR(S): Neunhoffer, Hans; Bachmann, Michael
 CORPORATE SOURCE: Inst. Org. Chem. Biochem., Tech. Hochsch. Darmstadt, Darmstadt, D-6100, Fed. Rep. Ger.
 SOURCE: Liebigs Annalen der Chemie (1985), (6), 1263-6
 CODEN: LACHDL; ISSN: 0170-2041
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 GI

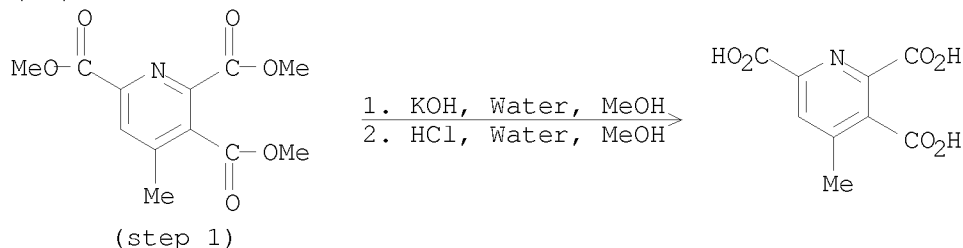


AB Pentafulvene I reacted with triazines II (R3, R5, R6 = Me, CO2Me, CO2Me; Me, CO2Et, CO2Et; CO2Me, CO2Me, CO2Me; CO2Me, Ph, H; CO2Me, Ph, Ph) either via addition to C5 of II to give pentafulvenyltriazines III or by a [4+2]cycloaddn. to give pyridenes IV/V. No [6+4] cycloaddn. between I

Updated Search

and II was observed. There was no reaction between I and II (R3, R5, R6 = Ph, H, H; H, Ph, H; Ph, Ph, Ph; Me, Me, Me) in boiling dioxane or boiling xylene; in diglycine, only tar-like decomposition products were obtained.

RX(10) OF 13



L6 ANSWER 3 OF 3 CASREACT COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 93:132190 CASREACT

TITLE: Synthesis of ubiquinone and menaquinone analogs by oxidative demethylation of alkenylhydroquinone ethers with argentic oxide or ceric ammonium nitrate in the presence of 2,4,6-pyridinetricarboxylic acid

AUTHOR(S): Syper, L.; Kloc, K.; Mlochowski, J.

CORPORATE SOURCE: Inst. Org. Phys. Chem., Tech. Univ., Wroclaw, 50 370, Pol.

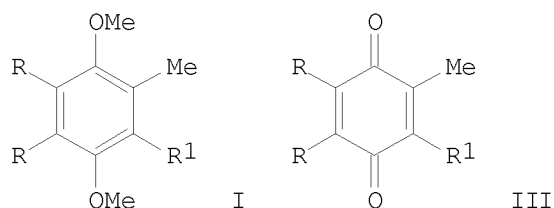
SOURCE: Tetrahedron (1980), 36(1), 123-9

CODEN: TETRAB; ISSN: 0040-4020

DOCUMENT TYPE: Journal

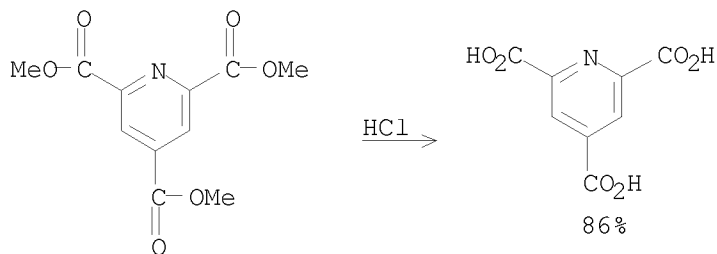
LANGUAGE: English

GI

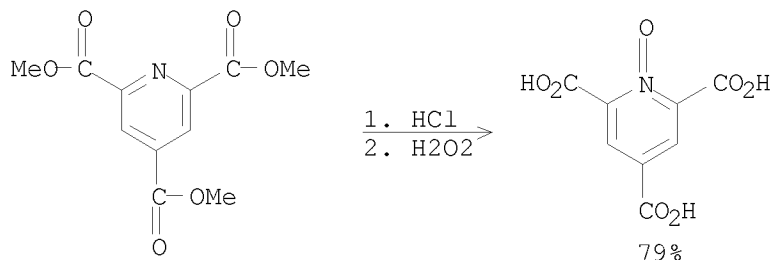


AB The alkenylhydroquinone ethers I [R2 = (OMe)2, CH:CHCH:CH, R1 = allyl, CH2CH:CMech2CH2CH:CMech2; R2 = CH:CHCH:CH, R1 = CH2CH:CMech2) underwent oxidative demethylation with AgO and (NH4)2Ce(NO3)6 catalyzed by 2,4,6-pyridinetricarboxylic acid (II), giving 53-89% quinones III (same R, R1). The prepns. of I and II are described.

RX(6) OF 95



RX(35) OF 95 - 2 STEPS



=> file rev

'REV' IS NOT A VALID FILE NAME

SESSION CONTINUES IN FILE 'CASREACT'

Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files that are available. If you have requested multiple files, you can specify a corrected file name or you can enter "IGNORE" to continue accessing the remaining file names entered.

=> file reg

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
265.16	265.37

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-2.25	-2.25

CA SUBSCRIBER PRICE

FILE 'REGISTRY' ENTERED AT 16:02:48 ON 06 MAR 2008

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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STRUCTURE FILE UPDATES: 5 MAR 2008 HIGHEST RN 1006749-26-3

DICTIONARY FILE UPDATES: 5 MAR 2008 HIGHEST RN 1006749-26-3

New CAS Information Use Policies, enter HELP USAGETERMS for details.

Updated Search

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

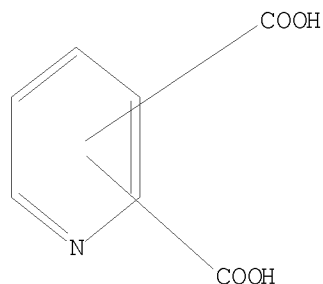
Uploading C:\Documents and Settings\brobinson1\My Documents\stnweb\Queries\lqwert.str

L8 STRUCTURE UPLOADED

=> d l8

L8 HAS NO ANSWERS

L8 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l8

SAMPLE SEARCH INITIATED 16:06:36 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 2842 TO ITERATE

70.4% PROCESSED 2000 ITERATIONS

38 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 53643 TO 60037

PROJECTED ANSWERS: 639 TO 1519

L9 38 SEA SSS SAM L8

=> s l8 full

THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 177.90 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y

FULL SEARCH INITIATED 16:06:41 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 57126 TO ITERATE

Updated Search

100.0% PROCESSED 57126 ITERATIONS
SEARCH TIME: 00.00.01

1059 ANSWERS

L10 1059 SEA SSS FUL L8

=> file hcaplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

181.12

446.49

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

0.00

-2.25

FILE 'HCAPLUS' ENTERED AT 16:06:44 ON 06 MAR 2008

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FILE COVERS 1907 - 6 Mar 2008 VOL 148 ISS 10

FILE LAST UPDATED: 5 Mar 2008 (20080305/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l10/prep

4212 L10

4538656 PREP/RL

L11 938 L10/PREP

(L10 (L) PREP/RL)

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

2.69

449.18

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

0.00

-2.25

FILE 'REGISTRY' ENTERED AT 16:06:51 ON 06 MAR 2008

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Updated Search

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 5 MAR 2008 HIGHEST RN 1006749-26-3
DICTIONARY FILE UPDATES: 5 MAR 2008 HIGHEST RN 1006749-26-3

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

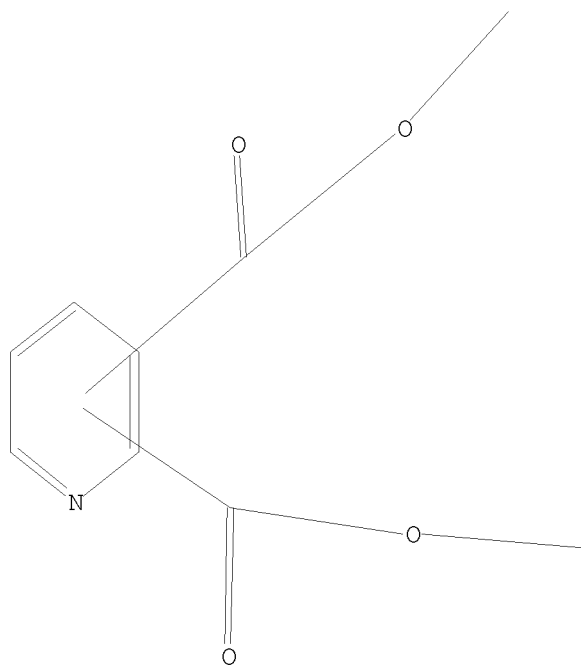
Uploading C:\Documents and Settings\brobinson1\My Documents\stnweb\Queries\serty.str

L12 STRUCTURE UPLOADED

=> d l12

L12 HAS NO ANSWERS

L12 STR



Structure attributes must be viewed using STN Express query preparation.

Updated Search

=> s l12 full

THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 177.90 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 16:09:11 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 104766 TO ITERATE

100.0% PROCESSED 104766 ITERATIONS 983 ANSWERS
SEARCH TIME: 00.00.01

L13 983 SEA SSS FUL L12

=> file hcaplus

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	179.74	628.92
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-2.25

FILE 'HCAPLUS' ENTERED AT 16:09:15 ON 06 MAR 2008
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FILE COVERS 1907 - 6 Mar 2008 VOL 148 ISS 10
FILE LAST UPDATED: 5 Mar 2008 (20080305/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l13

L14 684 L13

=> s l13/rct

684 L13
3072975 RCT/RL
L15 227 L13/RCT
(L13 (L) RCT/RL)

=> d his

(FILE 'HOME' ENTERED AT 15:49:32 ON 06 MAR 2008)

FILE 'CASREACT' ENTERED AT 15:49:39 ON 06 MAR 2008

Updated Search

L1 STRUCTURE UPLOADED
L2 0 S L1
L3 0 S L1 FULL
L4 STRUCTURE UPLOADED
L5 0 S L4
L6 3 S L4 FULL
L7 0 S L6 AND LEVY, M?/AU

FILE 'REGISTRY' ENTERED AT 16:02:48 ON 06 MAR 2008

L8 STRUCTURE UPLOADED
L9 38 S L8
L10 1059 S L8 FULL

FILE 'HCAPLUS' ENTERED AT 16:06:44 ON 06 MAR 2008

L11 938 S L10/PREP

FILE 'REGISTRY' ENTERED AT 16:06:51 ON 06 MAR 2008

L12 STRUCTURE UPLOADED
L13 983 S L12 FULL

FILE 'HCAPLUS' ENTERED AT 16:09:15 ON 06 MAR 2008

L14 684 S L13
L15 227 S L13/RCT

=> s l15 and l11

L16 62 L15 AND L11

=> s l16 and saponification

9642 SAPONIFICATION
39 SAPONIFICATIONS
9654 SAPONIFICATION
(SAPONIFICATION OR SAPONIFICATIONS)
55154 SAPON
92 SAPONS
55200 SAPON
(SAPON OR SAPONS)
60242 SAPONIFICATION
(SAPONIFICATION OR SAPON)

L17 14 L16 AND SAPONIFICATION

=> s l17 and oxid?

3178855 OXID?

L18 7 L17 AND OXID?

=> s l18 and levy, m?/au

2169 LEVY, M?/AU

L19 0 L18 AND LEVY, M?/AU

=> d l18, ibib abs hitstr, 1-7

L18 ANSWER 1 OF 7 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2001:389578 HCAPLUS

DOCUMENT NUMBER: 135:204371

TITLE: New ruthenium bisterpyridinyl complexes, as efficient sensitizers of nanocrystalline, TiO2 films

AUTHOR(S): Beley, M.; Bignozzi, C.-A.; Kirsch, G.; Alebbi, M.; Raboin, J.-C.

CORPORATE SOURCE: Laboratoire d'Electrochimie des Materiaux, Universite

Updated Search

SOURCE: de Metz, Metz, ile du Saulcy, 57045, Fr.
Inorganica Chimica Acta (2001), 318(1,2), 197-200
CODEN: ICHAA3; ISSN: 0020-1693

PUBLISHER: Elsevier Science S.A.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 135:204371

AB Unsym. bisterpyridinyl ruthenium complexes carrying vicinal carboxylic acids were prepared They show room temperature luminescence and efficient sensitization of nanocryst. TiO₂ films, with conversion yields (IPCE) of 70%.

IT 356788-03-9P 356788-11-9P
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation);
PREP (Preparation); RACT (Reactant or reagent)
(preparation, luminescence and electrochem. oxidn. as efficient sensitizer of nanocryst. titania films)

RN 356788-03-9 HCAPLUS

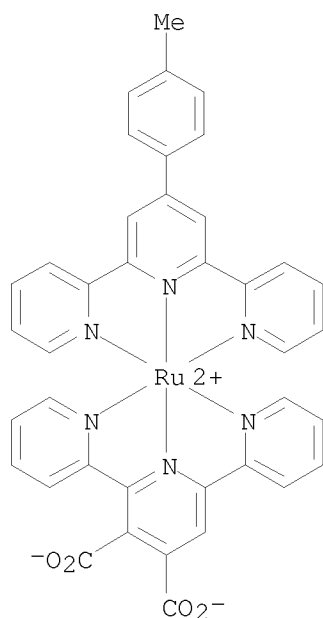
CN Ruthenium, [4'-(4-methylphenyl)-2,2':6',2''-terpyridine-
κN1,κN1',κN1''][[2,2':6',2''-terpyridine]-3',4'-
dicarboxylato(2-)-κN1,κN1',κN1'']-, (OC-6-24)-,
dinitrate (9CI) (CA INDEX NAME)

CM 1

CRN 356788-02-8

CMF C39 H26 N6 O4 Ru

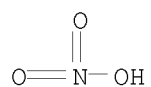
CCI CCS



CM 2

CRN 7697-37-2

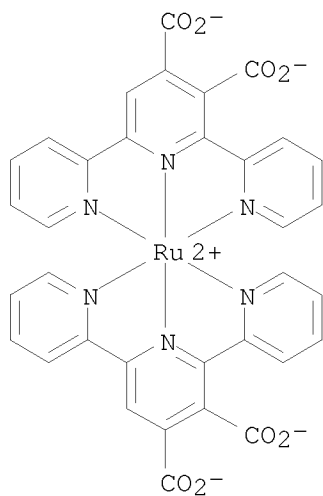
CMF H N O3



RN 356788-11-9 HCAPLUS
 CN Ruthenate(2-), bis[[2,2':6',2''-terpyridine]-3',4'-dicarboxylato(2-)-
 $\kappa\text{N}1,\kappa\text{N}1',\kappa\text{N}1''$]-, (OC-6-1'3)-, potassium
 hexafluorophosphate(1-) (1:4:2) (9CI) (CA INDEX NAME)

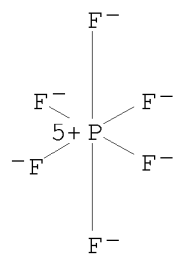
CM 1

CRN 356788-10-8
 CMF C34 H18 N6 O8 Ru
 CCI CCS



CM 2

CRN 16919-18-9
 CMF F6 P
 CCI CCS



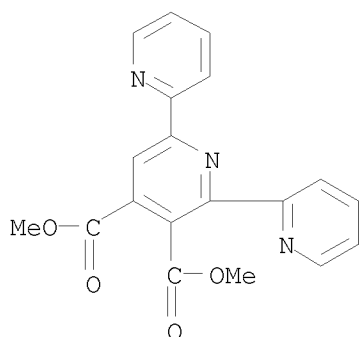
IT 247058-04-4P 247058-05-5P

Updated Search

RL: RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)
(reactant for preparation of ruthenium terpyridine complex as efficient
sensitizer of nanocryst. titania films)

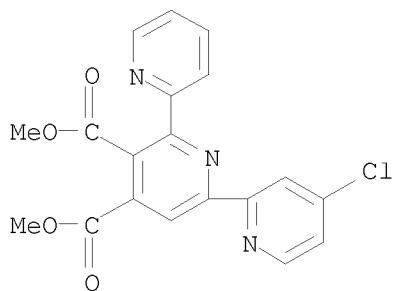
RN 247058-04-4 HCAPLUS

CN [2,2':6',2''-Terpyridine]-3',4'-dicarboxylic acid, dimethyl ester (9CI)
(CA INDEX NAME)



RN 247058-05-5 HCAPLUS

CN [2,2':6',2''-Terpyridine]-3',4'-dicarboxylic acid, 4''-chloro-, dimethyl
ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 2 OF 7 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1991:583295 HCAPLUS

DOCUMENT NUMBER: 115:183295

TITLE: Preparation of pyridinedicarboxylates, their
conversion to (dioxacycloalkyl)(oxoimidazolidinyl)nico
tinates in preparation of herbicides

INVENTOR(S): Finn, John Michael

PATENT ASSIGNEE(S): American Cyanamid Co., USA

SOURCE: Eur. Pat. Appl., 110 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

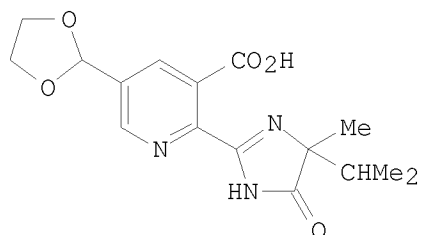
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

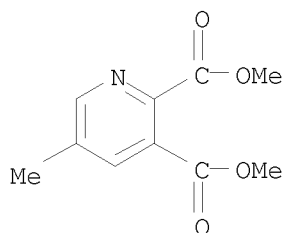
Updated Search

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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EP 434965	A2	19910703	EP 1990-122074	19901119
EP 434965	A3	19920108		
EP 434965	B1	19980520		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
US 5026859	A	19910625	US 1989-457607	19891227
US 5039333	A	19910813	US 1989-457606	19891227
AT 166350	T	19980615	AT 1990-122074	19901119
ES 2116971	T3	19980801	ES 1990-122074	19901119
IL 96429	A	19941229	IL 1990-96429	19901121
IL 109336	A	19950526	IL 1990-109336	19901121
AU 9068383	A	19910704	AU 1990-68383	19901221
AU 637857	B2	19930610		
CA 2033143	A1	19910628	CA 1990-2033143	19901224
CA 2033143	C	20040921		
JP 04120074	A	19920421	JP 1990-413664	19901225
JP 3157173	B2	20010416		
BR 9006596	A	19911001	BR 1990-6596	19901226
US 5225564	A	19930706	US 1991-694708	19910502
US 5239070	A	19930824	US 1991-714548	19910611
US 5283230	A	19940201	US 1993-36120	19930323
US 5344935	A	19940906	US 1993-68363	19930527
US 5405827	A	19950411	US 1993-140776	19931021
PRIORITY APPLN. INFO.:			US 1989-457606	A 19891227
			US 1989-457607	A 19891227
			IL 1990-96429	A3 19901121
			US 1991-694708	A3 19910502
			US 1991-714548	A3 19910611
			US 1993-36120	A3 19930323
OTHER SOURCE(S):			CASREACT 115:183295; MARPAT 115:183295	
GI				

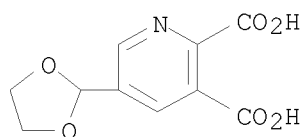


AB Certain 2,3-pyridinedicarboxylates, e.g., di-Me 5-(1,3-dioxolan-2-yl)- or di-Me 5-(1,3-dioxepan-2-yl)-2,3-pyridinedicarboxylate, fused pyridinecarboxylates (no data), and 2-(5-oxo-1H-imidazol-2-yl)-3-pyridinecarboxylates [(5-oxo-1H-imidazol-2-yl)nicotimates] are claimed. Several methods for the preparation of these 2,3-pyridinedicarboxylates and also for the preparation of fused pyridinecarboxylate derivs. are claimed. Some of the compds. thus prepared were screened for herbicidal activity. Cyclocondensation reaction of 2-[N-(1-carbamoyl-1,2-dimethylpropyl)carbamoyl]-5-(1,3-dioxolan-2-yl)nicotinic acid gave 5% 2-[4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-(1,3-dioxolan-2-yl)nicotinic acid (I). I was screened as herbicide against *Echinochloa crusgalli*, *Ambrosia artemisiifolia*, etc., and against sugarbeets, corn, cotton, and soybeans.

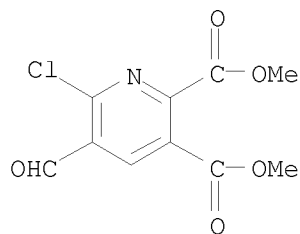
IT 112110-16-4, Dimethyl 5-methyl-2,3-pyridinedicarboxylate
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (bromination of)
 RN 112110-16-4 HCAPLUS
 CN 2,3-Pyridinedicarboxylic acid, 5-methyl-, 2,3-dimethyl ester (CA INDEX NAME)



IT 136593-12-9P, 5-(1,3-Dioxolan-2-yl)-2,3-pyridinedicarboxylic acid
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP
 (Preparation); RACT (Reactant or reagent)
 (preparation and cyclocondensation reaction of)
 RN 136593-12-9 HCAPLUS
 CN 2,3-Pyridinedicarboxylic acid, 5-(1,3-dioxolan-2-yl)- (CA INDEX NAME)

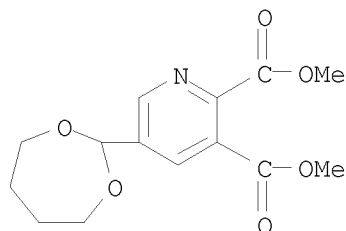


IT 136592-93-3P, Dimethyl 6-chloro-5-formyl-2,3-pyridinedicarboxylate
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP
 (Preparation); RACT (Reactant or reagent)
 (preparation and methoxylation of)
 RN 136592-93-3 HCAPLUS
 CN 2,3-Pyridinedicarboxylic acid, 6-chloro-5-formyl-, dimethyl ester (9CI)
 (CA INDEX NAME)



IT 136592-99-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP
 (Preparation); RACT (Reactant or reagent)
 (preparation and sapon. and carbamoylation of)
 RN 136592-99-9 HCAPLUS
 CN 2,3-Pyridinedicarboxylic acid, 5-(1,3-dioxepan-2-yl)-, dimethyl ester

(9CI) (CA INDEX NAME)

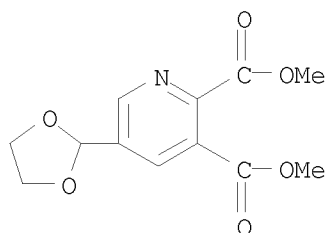


IT 136592-95-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)
(preparation and sapon. of)

RN 136592-95-5 HCAPLUS

CN 2,3-Pyridinedicarboxylic acid, 5-(1,3-dioxolan-2-yl)-, dimethyl ester
(9CI) (CA INDEX NAME)



L18 ANSWER 3 OF 7 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1989:212562 HCAPLUS

DOCUMENT NUMBER: 110:212562

TITLE: Controlled, regiospecific oxidation of
pyridinecarboxylic acids and esters with elemental
fluorine

AUTHOR(S): Van Der Puy, Michael; Nalewajek, David; Wicks, Gene E.
CORPORATE SOURCE: Buffalo Res. Lab., Allied-Signal Inc., Buffalo, NY,
14210, USA

SOURCE: Tetrahedron Letters (1988), 29(35), 4389-92
CODEN: TELEAY; ISSN: 0040-4039

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 110:212562

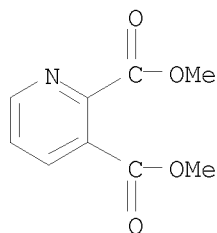
AB Pyridinecarboxylate salts or esters in H₂O or H₂O-MeCN mixts. were treated
with elemental F to give the corresponding 2-pyridones regiospecifically.

IT 605-38-9, Dimethyl 2,3-pyridinedicarboxylate

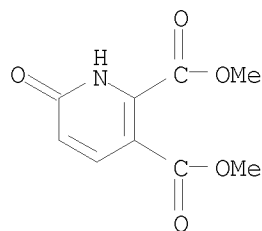
RL: RCT (Reactant); RACT (Reactant or reagent)
(hydroxylation of, with fluorine in water, regiochem. of)

RN 605-38-9 HCAPLUS

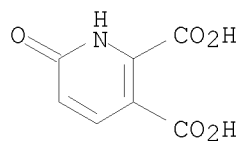
CN 2,3-Pyridinedicarboxylic acid, 2,3-dimethyl ester (CA INDEX NAME)



IT 32383-11-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and sapon. of)
 RN 32383-11-2 HCAPLUS
 CN 2,3-Pyridinedicarboxylic acid, 1,6-dihydro-6-oxo-, dimethyl ester (8CI, 9CI) (CA INDEX NAME)



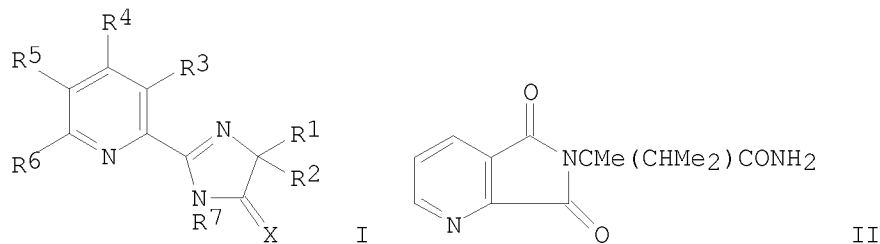
IT 7596-64-7P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
 RN 7596-64-7 HCAPLUS
 CN 2,3-Pyridinedicarboxylic acid, 1,6-dihydro-6-oxo- (CA INDEX NAME)



L18 ANSWER 4 OF 7 HCAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1987:213943 HCAPLUS
 DOCUMENT NUMBER: 106:213943
 TITLE: Herbicidal 2-(2-imidazolin-2-yl)pyridine derivatives
 INVENTOR(S): Los, Marinus
 PATENT ASSIGNEE(S): American Cyanamid Co., USA
 SOURCE: Brit. UK Pat. Appl., 361 pp.
 CODEN: BAXXDU
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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GB 2174395	A	19861105	GB 1986-11303
PRIORITY APPLN. INFO.:			19860509
OTHER SOURCE(S):	CASREACT 106:213943;	MARPAT 106:213943	19860509
GI			

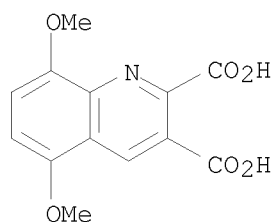


AB The title compds. [I; R1 = C1-4 alkyl; R2 = C1-4 alkyl, C3-6 cycloalkyl; R1R2 = (Me-substituted) C2-5 alkylene; R3 = (un)modified CO2H, acyl, HOCH2, carboxyalkyl, oxazolidinyl, (substituted) alkenyl, alkynyl, cycloalkyl, etc; R4 = H, halo, OH, Me; R5, R6 = H, halo, (substituted) C1-6 alkyl, hydroxyalkyl, C1-6 alkoxy, C1-4 alkylthio, PhO, NO2, cyano, amino; R5R6 = atoms to complete a fused, (un)subst. aromatic ring; R7 = H, (substituted) acyl, sulfonyl; X = O, S] and related compds. were prepared as herbicides. Thus, pyrrolopyridineacetamide II was treated successively with diazabicycloundcene and MeOH to give I (R1 = Me, R2 = Me2CH, R3 = CO2Me, R4-R7 = H, X = O). This was saponified and treated with Et3N to give I.Et3N (R1 = Me, R2 = Me2CH, R3 = CO2H, R4-R7 = H, X = O) (III). At 0.032 kg/ha III gave a complete kill of quackgrass.

IT 90376-86-6P 90376-87-7P 90376-88-8P
92513-41-2P 92513-42-3P 92513-43-4P
92513-44-5P 92513-45-6P 92513-46-7P
92513-47-8P 92513-48-9P 92513-49-0P
92513-50-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and conversion to anhydride)

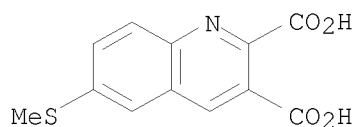
RN 90376-86-6 HCAPLUS

CN 2,3-Quinolinedicarboxylic acid, 5,8-dimethoxy- (CA INDEX NAME)

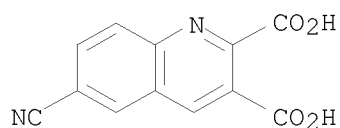


RN 90376-87-7 HCAPLUS

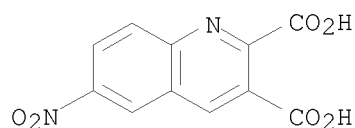
CN 2,3-Quinolinedicarboxylic acid, 6-(methylthio)- (CA INDEX NAME)



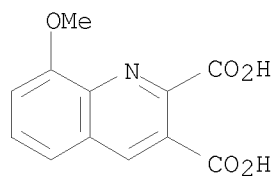
RN 90376-88-8 HCAPLUS
 CN 2,3-Quinolinedicarboxylic acid, 6-cyano- (CA INDEX NAME)



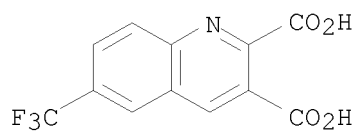
RN 92513-41-2 HCAPLUS
 CN 2,3-Quinolinedicarboxylic acid, 6-nitro- (CA INDEX NAME)



RN 92513-42-3 HCAPLUS
 CN 2,3-Quinolinedicarboxylic acid, 8-methoxy- (CA INDEX NAME)

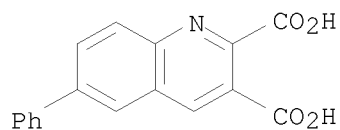


RN 92513-43-4 HCAPLUS
 CN 2,3-Quinolinedicarboxylic acid, 6-(trifluoromethyl)- (CA INDEX NAME)

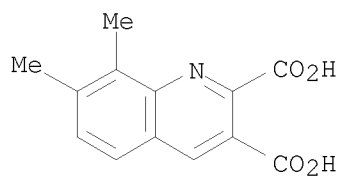


RN 92513-44-5 HCAPLUS
 CN 2,3-Quinolinedicarboxylic acid, 6-phenyl- (CA INDEX NAME)

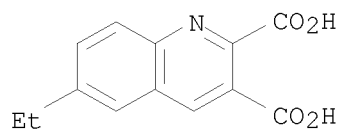
Updated Search



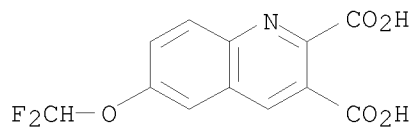
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 CN 2,3-Quinolinedicarboxylic acid, 7,8-dimethyl- (CA INDEX NAME)



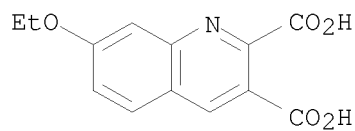
RN 92513-46-7 HCAPLUS
 CN 2,3-Quinolinedicarboxylic acid, 6-ethyl- (CA INDEX NAME)



RN 92513-47-8 HCAPLUS
 CN 2,3-Quinolinedicarboxylic acid, 6-(difluoromethoxy)- (CA INDEX NAME)

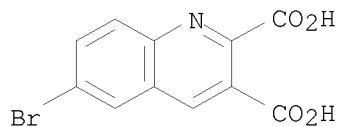


RN 92513-48-9 HCAPLUS
 CN 2,3-Quinolinedicarboxylic acid, 7-ethoxy- (CA INDEX NAME)

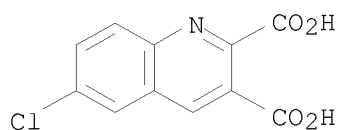


RN 92513-49-0 HCAPLUS
 CN 2,3-Quinolinedicarboxylic acid, 6-bromo- (CA INDEX NAME)

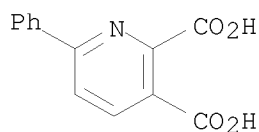
Updated Search



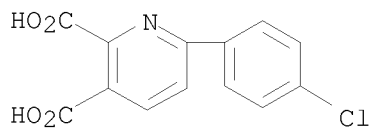
RN 92513-50-3 HCAPLUS
 CN 2,3-Quinolinedicarboxylic acid, 6-chloro- (CA INDEX NAME)



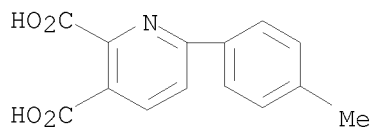
IT 39633-01-7P 90376-89-9P 90376-90-2P
 90376-91-3P 90376-92-4P 90376-93-5P
 90376-94-6P 90376-95-7P 90376-96-8P
 107504-15-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP
 (Preparation); RACT (Reactant or reagent)
 (preparation and dehydration of, quinolinic anhydride derivative by)
 RN 39633-01-7 HCAPLUS
 CN 2,3-Pyridinedicarboxylic acid, 6-phenyl- (CA INDEX NAME)



RN 90376-89-9 HCAPLUS
 CN 2,3-Pyridinedicarboxylic acid, 6-(4-chlorophenyl)- (CA INDEX NAME)

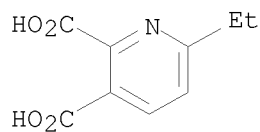


RN 90376-90-2 HCAPLUS
 CN 2,3-Pyridinedicarboxylic acid, 6-(4-methylphenyl)- (CA INDEX NAME)

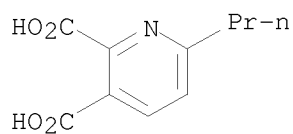


Updated Search

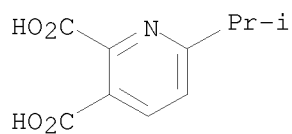
RN 90376-91-3 HCAPLUS
CN 2,3-Pyridinedicarboxylic acid, 6-ethyl- (CA INDEX NAME)



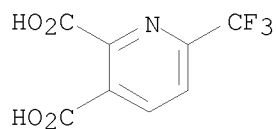
RN 90376-92-4 HCAPLUS
CN 2,3-Pyridinedicarboxylic acid, 6-propyl- (CA INDEX NAME)



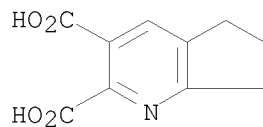
RN 90376-93-5 HCAPLUS
CN 2,3-Pyridinedicarboxylic acid, 6-(1-methylethyl)- (CA INDEX NAME)



RN 90376-94-6 HCAPLUS
CN 2,3-Pyridinedicarboxylic acid, 6-(trifluoromethyl)- (CA INDEX NAME)

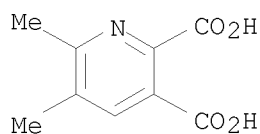


RN 90376-95-7 HCAPLUS
CN 5H-Cyclopenta[b]pyridine-2,3-dicarboxylic acid, 6,7-dihydro- (CA INDEX NAME)

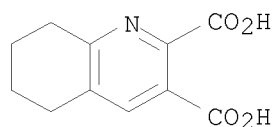


RN 90376-96-8 HCAPLUS
CN 2,3-Pyridinedicarboxylic acid, 5,6-dimethyl- (CA INDEX NAME)

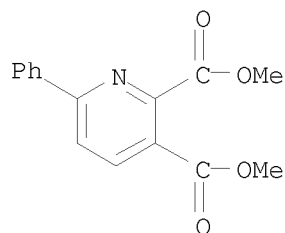
Updated Search



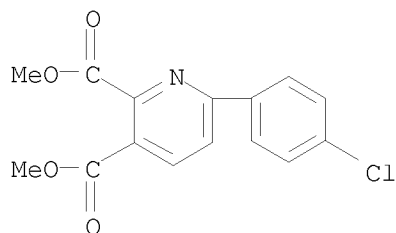
RN 107504-15-4 HCAPLUS
 CN 2,3-Quinolinedicarboxylic acid, 5,6,7,8-tetrahydro- (CA INDEX NAME)



IT 39632-98-9P 92487-60-0P 92487-61-1P
 92487-62-2P 92487-63-3P 92487-64-4P
 107504-14-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP
 (Preparation); RACT (Reactant or reagent)
 (preparation and sapon. of)
 RN 39632-98-9 HCAPLUS
 CN 2,3-Pyridinedicarboxylic acid, 6-phenyl-, dimethyl ester (9CI) (CA INDEX NAME)



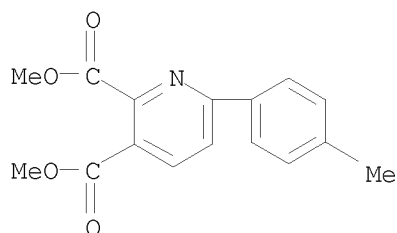
RN 92487-60-0 HCAPLUS
 CN 2,3-Pyridinedicarboxylic acid, 6-(4-chlorophenyl)-, dimethyl ester (9CI)
 (CA INDEX NAME)



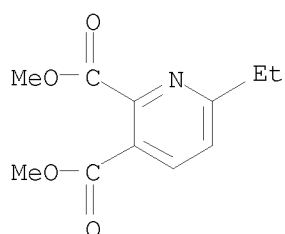
RN 92487-61-1 HCAPLUS
 CN 2,3-Pyridinedicarboxylic acid, 6-(4-methylphenyl)-, dimethyl ester (9CI)

Updated Search

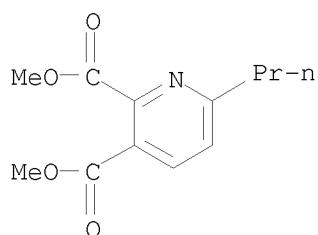
(CA INDEX NAME)



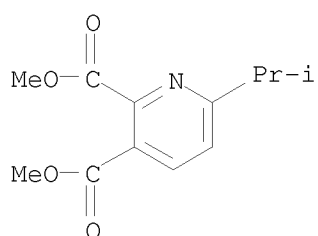
RN 92487-62-2 HCAPLUS
CN 2,3-Pyridinedicarboxylic acid, 6-ethyl-, dimethyl ester (9CI) (CA INDEX NAME)



RN 92487-63-3 HCAPLUS
CN 2,3-Pyridinedicarboxylic acid, 6-propyl-, dimethyl ester (9CI) (CA INDEX NAME)

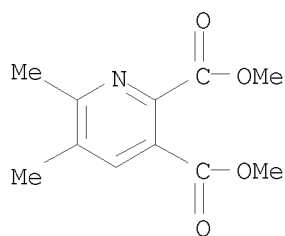


RN 92487-64-4 HCAPLUS
CN 2,3-Pyridinedicarboxylic acid, 6-(1-methylethyl)-, dimethyl ester (9CI) (CA INDEX NAME)



Updated Search

RN 107504-14-3 HCAPLUS
 CN 2,3-Pyridinedicarboxylic acid, 5,6-dimethyl-, dimethyl ester (9CI) (CA
 INDEX NAME)



L18 ANSWER 5 OF 7 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1985:422586 HCAPLUS

DOCUMENT NUMBER: 103:22586

ORIGINAL REFERENCE NO.: 103:3727a,3730a

TITLE: (2-Imidazolin-2-yl)thieno- and -furo[2,3-b] and
 [3,2-b]pyridines, their intermediates, and their use
 as herbicides

INVENTOR(S): Los, Marinus; Ladner, David William; Cross, Barrington

PATENT ASSIGNEE(S): American Cyanamid Co. , USA

SOURCE: Ger. Offen., 136 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

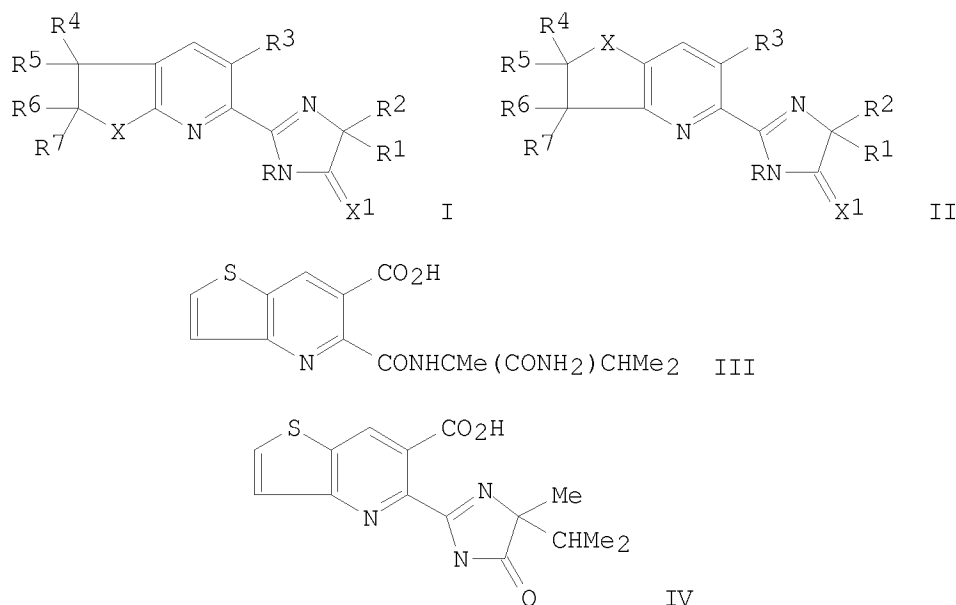
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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DE 3420271	A1	19841206	DE 1984-3420271	19840530
DE 3420271	C2	19940526		
EP 127883	A2	19841212	EP 1984-106199	19840530
EP 127883	A3	19850821		
EP 127883	B1	19890607		
R: AT, BE, CH, FR, GB, IT, LI, NL, SE				
ZA 8404134	A	19850130	ZA 1984-4134	19840530
AT 43845	T	19890615	AT 1984-106199	19840530
DK 8402736	A	19841203	DK 1984-2736	19840601
AU 8428966	A	19841206	AU 1984-28966	19840601
BR 8402685	A	19850507	BR 1984-2685	19840601
JP 60185783	A	19850921	JP 1984-112891	19840601
JP 05056354	B	19930819		
HU 36352	A2	19850930	HU 1984-2147	19840601
HU 200655	B	19900828		
DD 231279	A5	19851224	DD 1984-263714	19840601
IL 71990	A	19881115	IL 1984-71990	19840601
IL 84850	A	19881115	IL 1984-84850	19840601
IL 84851	A	19881115	IL 1984-84851	19840601
CA 1259617	A1	19890919	CA 1984-455718	19840601
CS 270409	B2	19900613	CS 1984-4140	19840601
HU 203833	B	19911028	HU 1990-3052	19840601
AU 8434530	A	19850207	AU 1984-34530	19841019
AU 572902	B2	19880519		

US 4650514	A	19870317	US 1984-676133	19841129
CS 270430	B2	19900613	CS 1986-1345	19860227
US 4752323	A	19880621	US 1987-929681	19870121
US 4920226	A	19900424	US 1989-358926	19890530
CA 1272728	A2	19900814	CA 1989-604997	19890706
DK 9201320	A	19921029	DK 1992-1320	19921029
RU 2058313	C1	19960420	RU 1994-3754151	19940601

PRIORITY APPLN. INFO.:

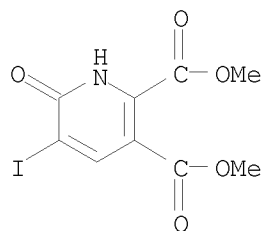
US 1983-500219	A	19830602
US 1984-611191	A2	19840521
EP 1984-106199	A	19840530
CA 1984-455718	A3	19840601
CS 1984-4140	A3	19840601
IL 1984-71990	A	19840601
US 1984-676133	A3	19841129
US 1987-929681	A3	19870121
US 1988-176542	B1	19880401

OTHER SOURCE(S): CASREACT 103:22586; MARPAT 103:22586
GI

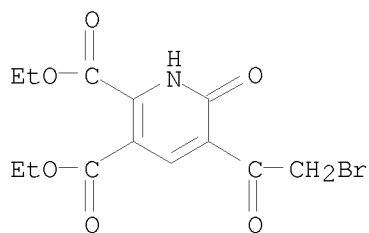


AB The title compds. [I, II; X, X1 = O, S; R = H, acyl; R1 = alkyl; R2 = alkyl, cycloalkyl; R1R2 = alkylene; R3 = CO₂H, modified CO₂H, CHO, CH₂OH, COCH₂OH, (un)substituted 2-imidazolin-2-yl; R4-R7 = H, halo, acyloxy, alkylsulfonyl, amino, cyano, NO₂, (un)substituted alkyl, alkoxy, Ph; R4R7 = bond; R5R6 = (un)substituted CH:CHCH:CH] were prepared. Thus, 3-(acetylamino)-2-thiophenecarboxaldehyde was deacetylated and cyclocondensed with MeO₂CC.tplbond.CCO₂Me to give di-Me thieno[3,2-b]pyridine-5,6-dicarboxylate. This was saponified, converted to the cyclic anhydride, and treated with Me₂CHCMe(NH₂)CONH₂ to give amide III which was cyclized by heating in aqueous NaOH to give imidazoline derivative IV. I are effective herbicides against, e.g., Avena fatua at 1 kg/ha.

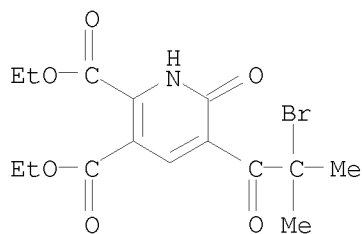
IT 94746-62-0
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (cyclocondensation of, with acetylenes)
 RN 94746-62-0 HCAPLUS
 CN 2,3-Pyridinedicarboxylic acid, 1,6-dihydro-5-iodo-6-oxo-, dimethyl ester
 (9CI) (CA INDEX NAME)



IT 94746-89-1P 94746-90-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP
 (Preparation); RACT (Reactant or reagent)
 (preparation and borohydride reduction of)
 RN 94746-89-1 HCAPLUS
 CN 2,3-Pyridinedicarboxylic acid, 5-(bromoacetyl)-1,6-dihydro-6-oxo-, diethyl
 ester (9CI) (CA INDEX NAME)



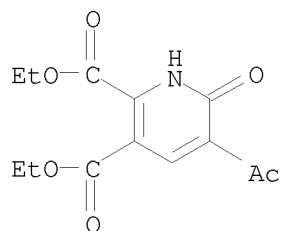
RN 94746-90-4 HCAPLUS
 CN 2,3-Pyridinedicarboxylic acid, 5-(2-bromo-2-methyl-1-oxopropyl)-1,6-
 dihydro-6-oxo-, diethyl ester (9CI) (CA INDEX NAME)



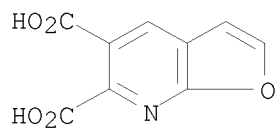
IT 94746-87-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP
 (Preparation); RACT (Reactant or reagent)
 (preparation and bromination of)
 RN 94746-87-9 HCAPLUS
 CN 2,3-Pyridinedicarboxylic acid, 5-acetyl-1,6-dihydro-6-oxo-, diethyl ester

Updated Search

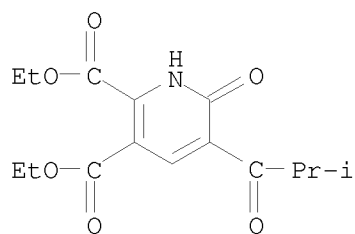
(9CI) (CA INDEX NAME)



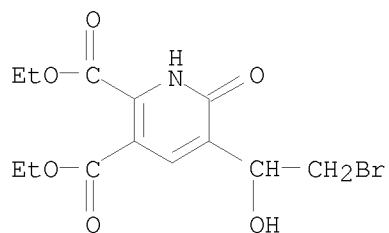
IT 94746-70-0P 94746-88-0P 94746-91-5P
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94747-00-9P 94747-01-0P 94747-20-3P
94747-21-4P 94747-28-1P 94747-56-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)
(preparation and cyclization of)
RN 94746-70-0 HCAPLUS
CN Furo[2,3-b]pyridine-5,6-dicarboxylic acid (CA INDEX NAME)



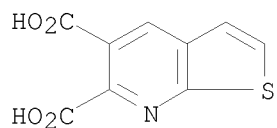
RN 94746-88-0 HCAPLUS
CN 2,3-Pyridinedicarboxylic acid, 1,6-dihydro-5-(2-methyl-1-oxopropyl)-6-oxo-
, diethyl ester (9CI) (CA INDEX NAME)



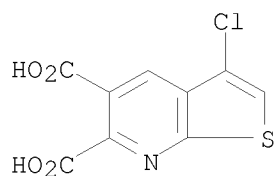
RN 94746-91-5 HCAPLUS
CN 2,3-Pyridinedicarboxylic acid, 5-(2-bromo-1-hydroxyethyl)-1,6-dihydro-6-
oxo-, diethyl ester (9CI) (CA INDEX NAME)



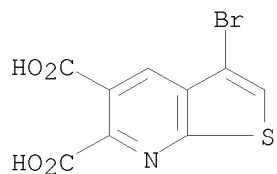
RN 94746-97-1 HCAPLUS
 CN Thieno[2,3-b]pyridine-5,6-dicarboxylic acid (CA INDEX NAME)



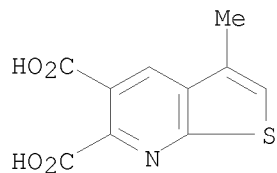
RN 94746-98-2 HCAPLUS
 CN Thieno[2,3-b]pyridine-5,6-dicarboxylic acid, 3-chloro- (CA INDEX NAME)



RN 94746-99-3 HCAPLUS
 CN Thieno[2,3-b]pyridine-5,6-dicarboxylic acid, 3-bromo- (CA INDEX NAME)



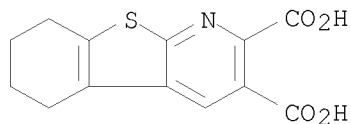
RN 94747-00-9 HCAPLUS
 CN Thieno[2,3-b]pyridine-5,6-dicarboxylic acid, 3-methyl- (CA INDEX NAME)



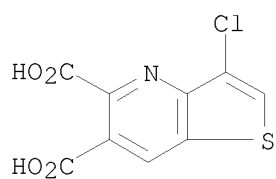
RN 94747-01-0 HCAPLUS

Updated Search

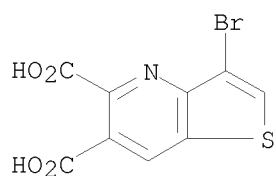
CN [1]Benzothieno[2,3-b]pyridine-2,3-dicarboxylic acid, 5,6,7,8-tetrahydro-
(CA INDEX NAME)



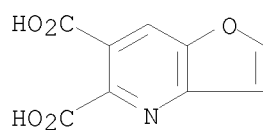
RN 94747-20-3 HCAPLUS
CN Thieno[3,2-b]pyridine-5,6-dicarboxylic acid, 3-chloro- (CA INDEX NAME)



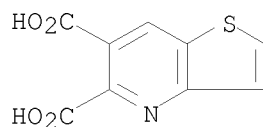
RN 94747-21-4 HCAPLUS
CN Thieno[3,2-b]pyridine-5,6-dicarboxylic acid, 3-bromo- (CA INDEX NAME)



RN 94747-28-1 HCAPLUS
CN Furo[3,2-b]pyridine-5,6-dicarboxylic acid (CA INDEX NAME)



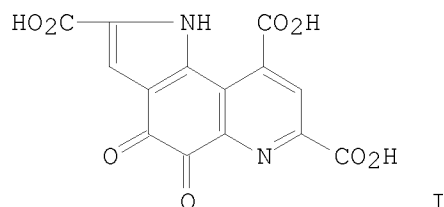
RN 94747-56-5 HCAPLUS
CN Thieno[3,2-b]pyridine-5,6-dicarboxylic acid (CA INDEX NAME)



Updated Search

L18 ANSWER 6 OF 7 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1982:142541 HCAPLUS
DOCUMENT NUMBER: 96:142541
ORIGINAL REFERENCE NO.: 96:23433a,23436a
TITLE: A convergent total synthesis of methoxatin
AUTHOR(S): Hendrickson, James B.; DeVries, Johannes G.
CORPORATE SOURCE: Dep. Chem., Brandeis Univ., Waltham, MA, 02254, USA
SOURCE: Journal of Organic Chemistry (1982), 47(6), 1148-50
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



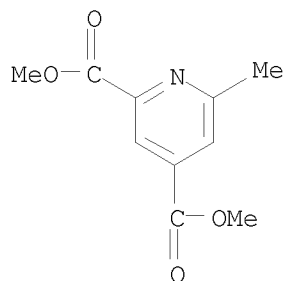
AB The total synthesis of the coenzyme methoxatin (I) is achieved by convergent linking of two halves, Et 4-formyl-2-pyrrolicarboxylate and di-Me uvitonate, converted first to Wittig reagent. The olefin-linked heterocycles are oxidatively photocyclized to deoxymethoxatin tri-ester and this functionalized to methoxatin by nitration to dinitro derivative, Na2S2 reduction to nitro amine, MnO2/H2SO4 oxidn. to nitro quinone; hydrogenation to amine, diazotization and H3PO2 reduction to methoxatin tri-ester, which is saponified to I.

IT 80721-35-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and bromination of)

RN 80721-35-3 HCAPLUS

CN 2,4-Pyridinedicarboxylic acid, 6-methyl-, dimethyl ester (9CI) (CA INDEX NAME)

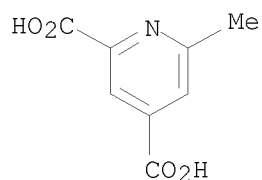


IT 499-50-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

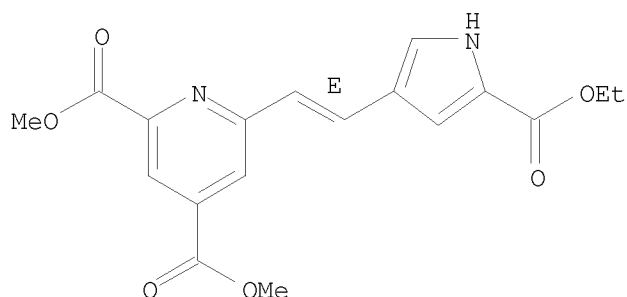
Updated Search

(preparation and esterification of)
 RN 499-50-3 HCAPLUS
 CN 2,4-Pyridinedicarboxylic acid, 6-methyl- (CA INDEX NAME)



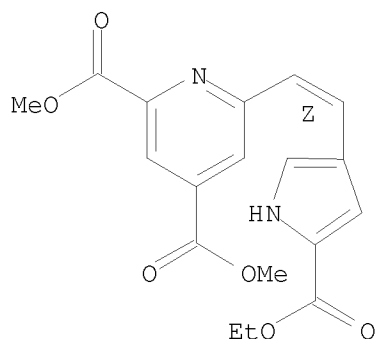
IT 80721-38-6P 80721-39-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP
 (Preparation); RACT (Reactant or reagent)
 (preparation and photooxidn. of)
 RN 80721-38-6 HCAPLUS
 CN 2,4-Pyridinedicarboxylic acid, 6-[2-[5-(ethoxycarbonyl)-1H-pyrrol-3-yl]ethenyl]-, dimethyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 80721-39-7 HCAPLUS
 CN 2,4-Pyridinedicarboxylic acid, 6-[2-[5-(ethoxycarbonyl)-1H-pyrrol-3-yl]ethenyl]-, dimethyl ester, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



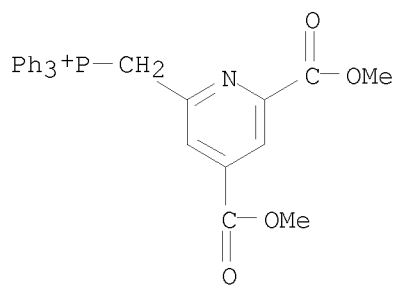
IT 80721-37-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP
 (Preparation); RACT (Reactant or reagent)

Updated Search

(preparation and reaction of, with formylpyrrolecarboxylate)

RN 80721-37-5 HCAPLUS

CN Phosphonium, [[4,6-bis(methoxycarbonyl)-2-pyridinyl]methyl]triphenyl-,
bromide (9CI) (CA INDEX NAME)



IT 80721-36-4P

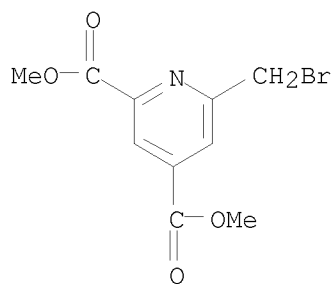
RL: RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

(preparation and reaction of, with triphenylphosphine)

RN 80721-36-4 HCAPLUS

CN 2,4-Pyridinedicarboxylic acid, 6-(bromomethyl)-, dimethyl ester (9CI) (CA
INDEX NAME)



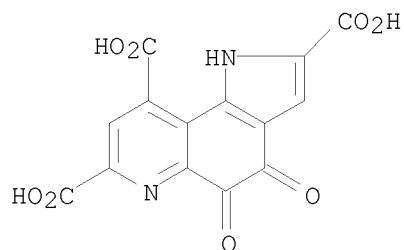
IT 72909-34-3P 73030-04-3P

RL: SPN (Synthetic preparation); PREP (Preparation)

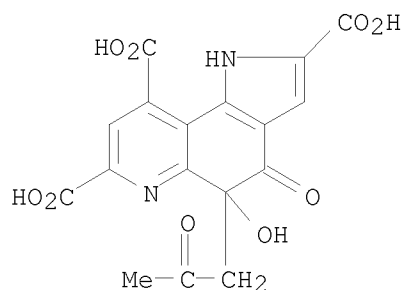
(preparation of)

RN 72909-34-3 HCAPLUS

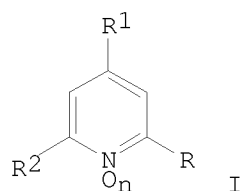
CN 1H-Pyrrolo[2,3-f]quinoline-2,7,9-tricarboxylic acid, 4,5-dihydro-4,5-dioxo-
(CA INDEX NAME)



RN 73030-04-3 HCAPLUS
 CN 1H-Pyrrolo[2,3-f]quinoline-2,7,9-tricarboxylic acid, 4,5-dihydro-5-hydroxy-4-oxo-5-(2-oxopropyl)- (CA INDEX NAME)



L18 ANSWER 7 OF 7 HCAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1979:611214 HCAPLUS
 DOCUMENT NUMBER: 91:211214
 ORIGINAL REFERENCE NO.: 91:34025a,34028a
 TITLE: Synthesis of some methoxycarbonyl-2-carboxypyridine N-oxides
 AUTHOR(S): Misic-Vukovic, Milica; Dimitrijevic, Dorde; Tadic, Zivorad
 CORPORATE SOURCE: Fac. Technol. Metall., Univ. Belgrade, Belgrade, YU-11001, Yugoslavia
 SOURCE: Glasnik Hemijskog Drustva Beograd (1979), 44(4), 237-41
 CODEN: GHDBAX; ISSN: 0017-0941
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 91:211214
 GI



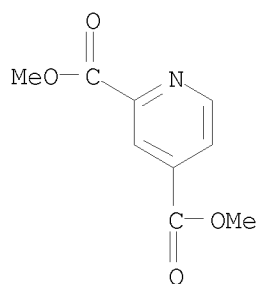
Updated Search

AB Oxidn. of I (R = R1 = CO2Me2, R2 = H, n = 0) with AcOH-H2O2
yielded I [R = CO2H, R1 = CO2Me, R2 = H, n = 1 (II); R = R2 = H, R1 =
CO2Me, n = 1). Alkaline hydrolysis of II gave I (R = R1 = CO2H, R2 = H, n =
1) the methylation of which by CH2N2 gave I (R = R2 = CO2Me, R1 = H, n =
0). H2O2 oxidn. of I (R = R2 = CO2Me, R1 = H, n = 0) gave I (R
= CO2H, R1 = H, R2 = CO2Me, n = 1).

IT 25658-36-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(oxidn. of, with hydrogen peroxide)

RN 25658-36-0 HCAPLUS

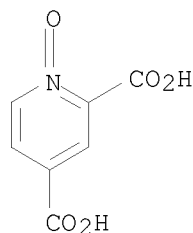
CN 2,4-Pyridinedicarboxylic acid, dimethyl ester (6CI, 7CI, 8CI, 9CI) (CA
INDEX NAME)



IT 16830-32-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)
(preparation and methylation of, with diazomethane)

RN 16830-32-3 HCAPLUS

CN 2,4-Pyridinedicarboxylic acid, 1-oxide (CA INDEX NAME)



=> file caold
COST IN U.S. DOLLARS
FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
CA SUBSCRIBER PRICE

SINCE FILE	TOTAL
ENTRY	SESSION
-5.60	-7.85

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FILE COVERS 1907-1966

FILE LAST UPDATED: 01 May 1997 (19970501/UP)

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FILE 'CASREACT' ENTERED AT 15:49:39 ON 06 MAR 2008

L1 STRUCTURE UPLOADED
L2 0 S L1
L3 0 S L1 FULL
L4 STRUCTURE UPLOADED
L5 0 S L4
L6 3 S L4 FULL
L7 0 S L6 AND LEVY, M?/AU

FILE 'REGISTRY' ENTERED AT 16:02:48 ON 06 MAR 2008

L8 STRUCTURE UPLOADED
L9 38 S L8
L10 1059 S L8 FULL

FILE 'HCAPLUS' ENTERED AT 16:06:44 ON 06 MAR 2008

L11 938 S L10/PREP

FILE 'REGISTRY' ENTERED AT 16:06:51 ON 06 MAR 2008

L12 STRUCTURE UPLOADED
L13 983 S L12 FULL

FILE 'HCAPLUS' ENTERED AT 16:09:15 ON 06 MAR 2008

L14 684 S L13
L15 227 S L13/RCT
L16 62 S L15 AND L11
L17 14 S L16 AND SAPONIFICATION
L18 7 S L17 AND OXID?
L19 0 S L18 AND LEVY, M?/AU

FILE 'CAOLD' ENTERED AT 16:10:33 ON 06 MAR 2008

=> s l13 and l11

QUALIFICATION NOT VALID FOR L10

Field code qualifications can only be applied to text terms.

Updated Search

=> s 110 and 113
160 L10
54 L13
L20 23 L10 AND L13

=>

=> s 120 and oxid?
71605 OXID?
L21 2 L20 AND OXID?

=> d 121, all, 1-2

L21 ANSWER 1 OF 2 CAOLD COPYRIGHT 2008 ACS on STN
AN CA57:15065a CAOLD
TI electrochem. oxidn. of 2,4-lutidine
AU Khomyakov, V. G.; Kruglikov, S. S.; Kazakova, L. I.
IT 25658-36-0 89977-06-0

L21 ANSWER 2 OF 2 CAOLD COPYRIGHT 2008 ACS on STN
AN CA52:15524f CAOLD
TI fungi - (XXXIII) oxidation of sclerotioramine and the structure
of sclerotiorin
AU Fielding, H. C.; Robertson, A.; Travers, R. B.; Whalley, W. B.
IT 96-17-3 490-28-8 1646-99-7 65644-84-0 77731-53-4
101889-01-4 110054-37-0 111415-80-6

=> FIL REGISTRY

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	ENTRY	SESSION
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-7.85

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DICTIONARY FILE UPDATES: 5 MAR 2008 HIGHEST RN 1006749-26-3

New CAS Information Use Policies, enter HELP USAGETERMS for details.

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conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of

Updated Search

experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

=> S 25658-36-0/RN

L22 1 25658-36-0/RN

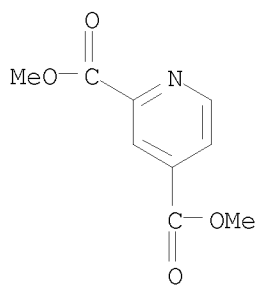
=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=> D L22 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
THE ESTIMATED COST FOR THIS REQUEST IS 6.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L22 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN 25658-36-0 REGISTRY
CN 2,4-Pyridinedicarboxylic acid, dimethyl ester (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN 2,4-Bismethoxycarbonylpyridine
CN Dimethyl 2,4-pyridinedicarboxylate
CN NSC 78960
MF C9 H9 N O4
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, SPECINFO, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)
DT.CA Caplus document type: Journal; Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); FORM (Formation, nonpreparative); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

45 REFERENCES IN FILE CA (1907 TO DATE)
45 REFERENCES IN FILE CAPLUS (1907 TO DATE)
5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

Updated Search

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND
SET COMMAND COMPLETED

=>

=> d his

(FILE 'HOME' ENTERED AT 15:49:32 ON 06 MAR 2008)

FILE 'CASREACT' ENTERED AT 15:49:39 ON 06 MAR 2008

L1 STRUCTURE UPLOADED
L2 0 S L1
L3 0 S L1 FULL
L4 STRUCTURE UPLOADED
L5 0 S L4
L6 3 S L4 FULL
L7 0 S L6 AND LEVY, M?/AU

FILE 'REGISTRY' ENTERED AT 16:02:48 ON 06 MAR 2008

L8 STRUCTURE UPLOADED
L9 38 S L8
L10 1059 S L8 FULL

FILE 'HCAPLUS' ENTERED AT 16:06:44 ON 06 MAR 2008

L11 938 S L10/PREP

FILE 'REGISTRY' ENTERED AT 16:06:51 ON 06 MAR 2008

L12 STRUCTURE UPLOADED
L13 983 S L12 FULL

FILE 'HCAPLUS' ENTERED AT 16:09:15 ON 06 MAR 2008

L14 684 S L13
L15 227 S L13/RCT
L16 62 S L15 AND L11
L17 14 S L16 AND SAPONIFICATION
L18 7 S L17 AND OXID?
L19 0 S L18 AND LEVY, M?/AU

FILE 'CAOLD' ENTERED AT 16:10:33 ON 06 MAR 2008

L20 23 S L10 AND L13
L21 2 S L20 AND OXID?

FILE 'REGISTRY' ENTERED AT 16:11:36 ON 06 MAR 2008

L22 1 S 25658-36-0/RN
SET NOTICE 1 DISPLAY
SET NOTICE LOGIN DISPLAY

=> s l21 and saponif?

936052 OXID?
30 SAPONIF?

L23 0 L21 AND SAPONIF?

Updated Search